

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/077292 A1

(51) International Patent Classification?:
A61F 2/46

(21) International Application Number:
PCT/EP2005/001538

(22) International Filing Date: 14 February 2005 (14.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2004A000260 17 February 2004 (17.02.2004) IT

(71) Applicant (for all designated States except US): PO-
LITECNICO DI MILANO [IT/IT]; Piazza Leonardo da
Vinci, 32, I-20133 Milano (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): RAIMONDI,
Manuela, Teresa [IT/IT]; Via Marco Terenzio Varrone,
10, I-20149 Milano (IT).

(74) Agents: COLOMBO, Stefano, Paolo et al.; Marchi &
Partners S.r.l.; Via Pirelli, 19, I-20124 Milano (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SJ, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

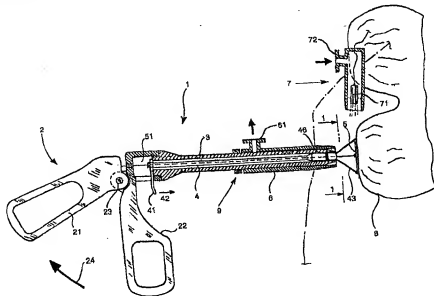
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: METHOD AND INSTRUMENT FOR THE GEOMETRICAL EVALUATION OF LESIONS AFFECTING TISSUES
OR INTERNAL ORGANS



(57) Abstract: A surgical instrument (1) and a method for geometrical evaluation of an object inside a body of a human being or animal is described. The instrument comprises a handle (2), a reference device (5) and means (3, 4) for bringing said reference device into the vicinity of said object, said instrument co-operating with an image acquisition (71) device for acquiring at least one image of said reference device when it is in the vicinity of said object. Typically the object is a lesion of an internal tissue, for example a cartilage tissue of an articulation of the knee.

WO 2005/077292 A1